

## Structure and Mechanics



### Primary Structure

Space Frame Assembly	19 kg	
CLL / Transfer Stage Adapter Ring	8 kg	
Lander Legs	22 kg	
Mounting Structure	21 kg	Total = 70 kg

$$\text{Structure Factor} = 70 \text{ kg} / 917 \text{ kg} = .076$$

### Secondary Structure

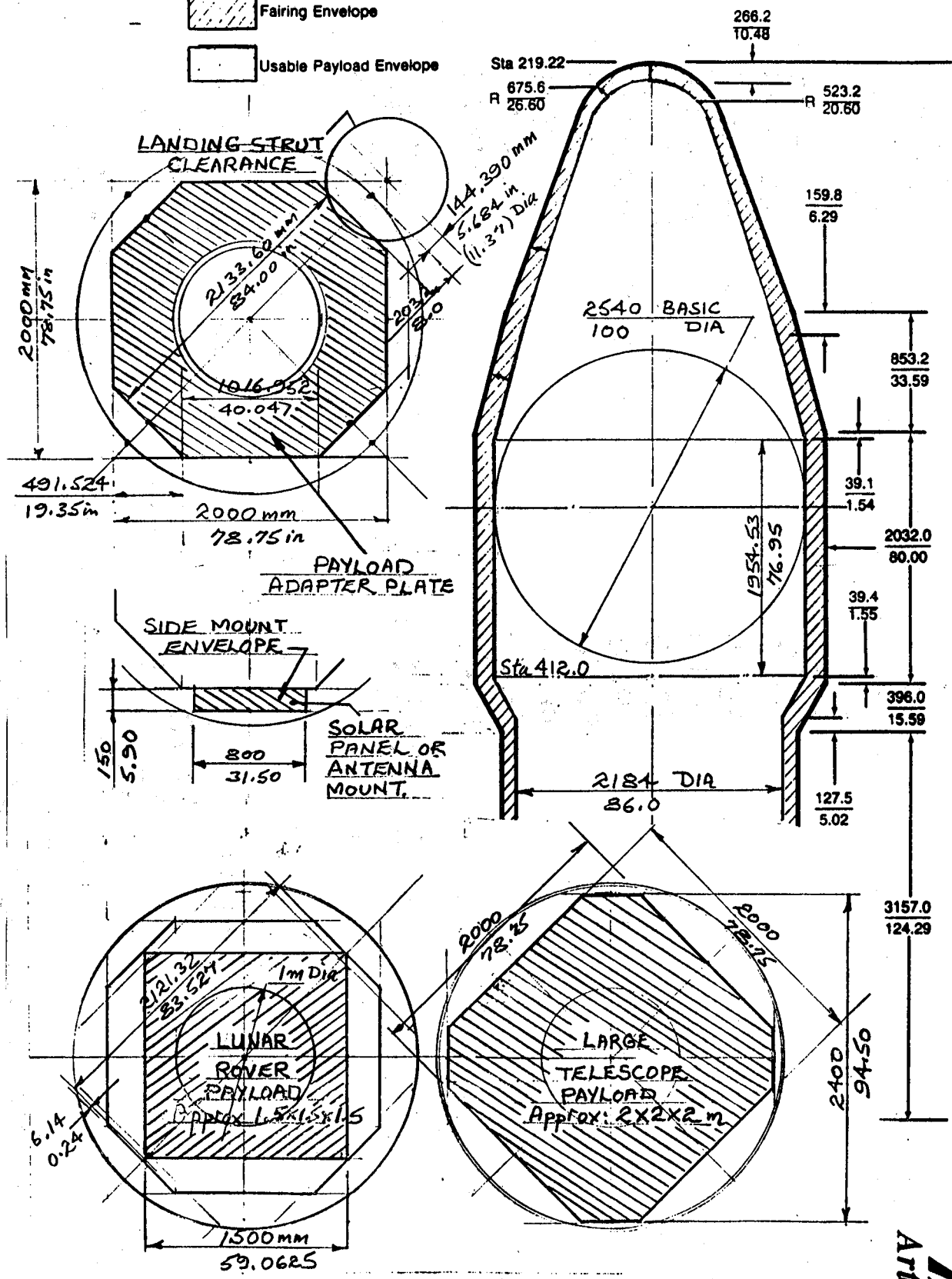
#### Mounting Structure                      Structure Factor

Propulsion	0.185
Power	0.156
GNC	0.108
DMS	0.145
Instrumentation	0.166
Communications	0.156
Tracking	0.050
Active Thermal	0.056
Landing Legs	0.216
Pyros	0.385

- The mounting structure masses are incorporated in the design mass statement.

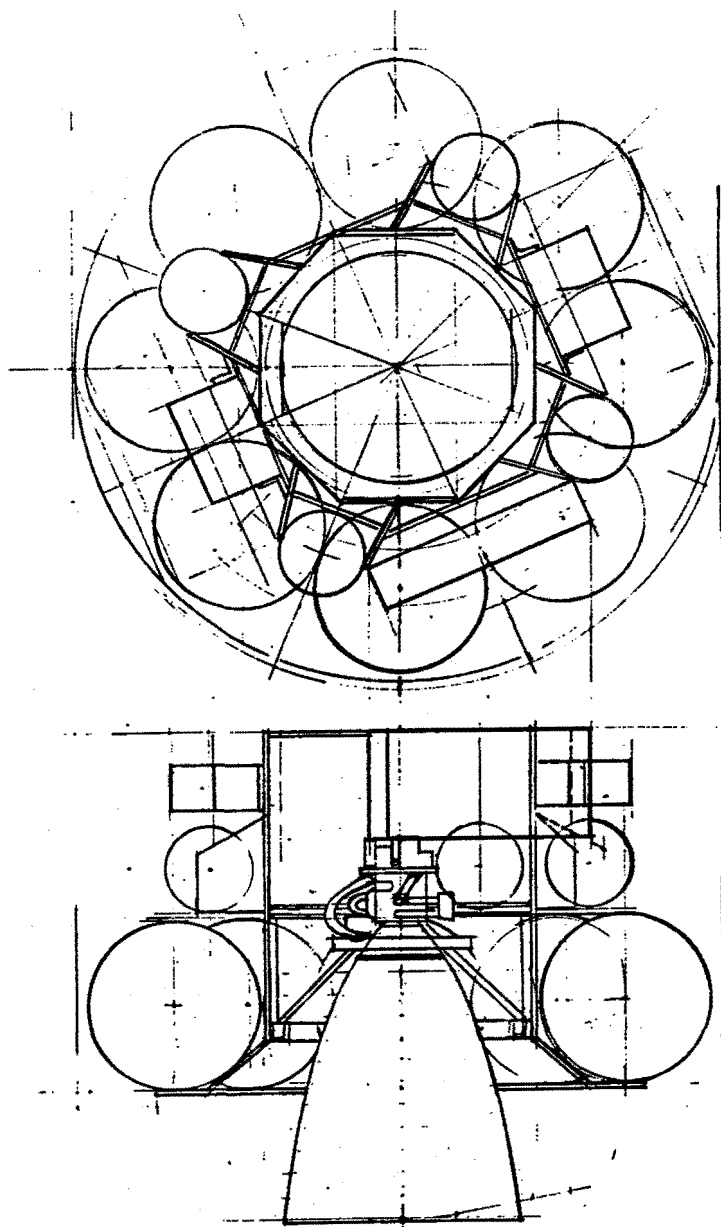


Fairing Envelope  
 Usable Payload Envelope



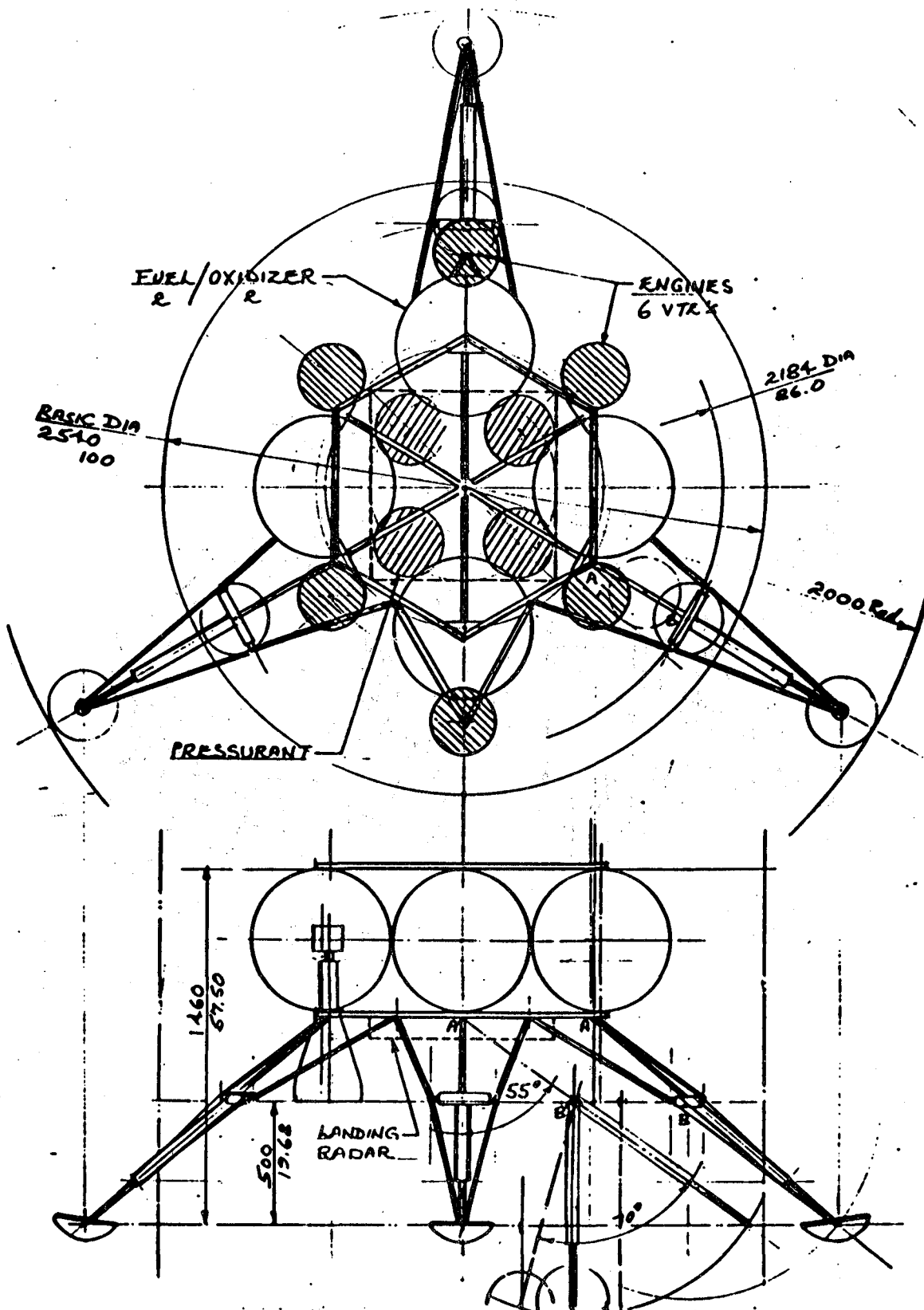
George Sanger/LSC/333-7254

Lockheed Engineering & Sciences Company






George Sanger/LSC/333-7254

Lockheed Engineering & Sciences Company

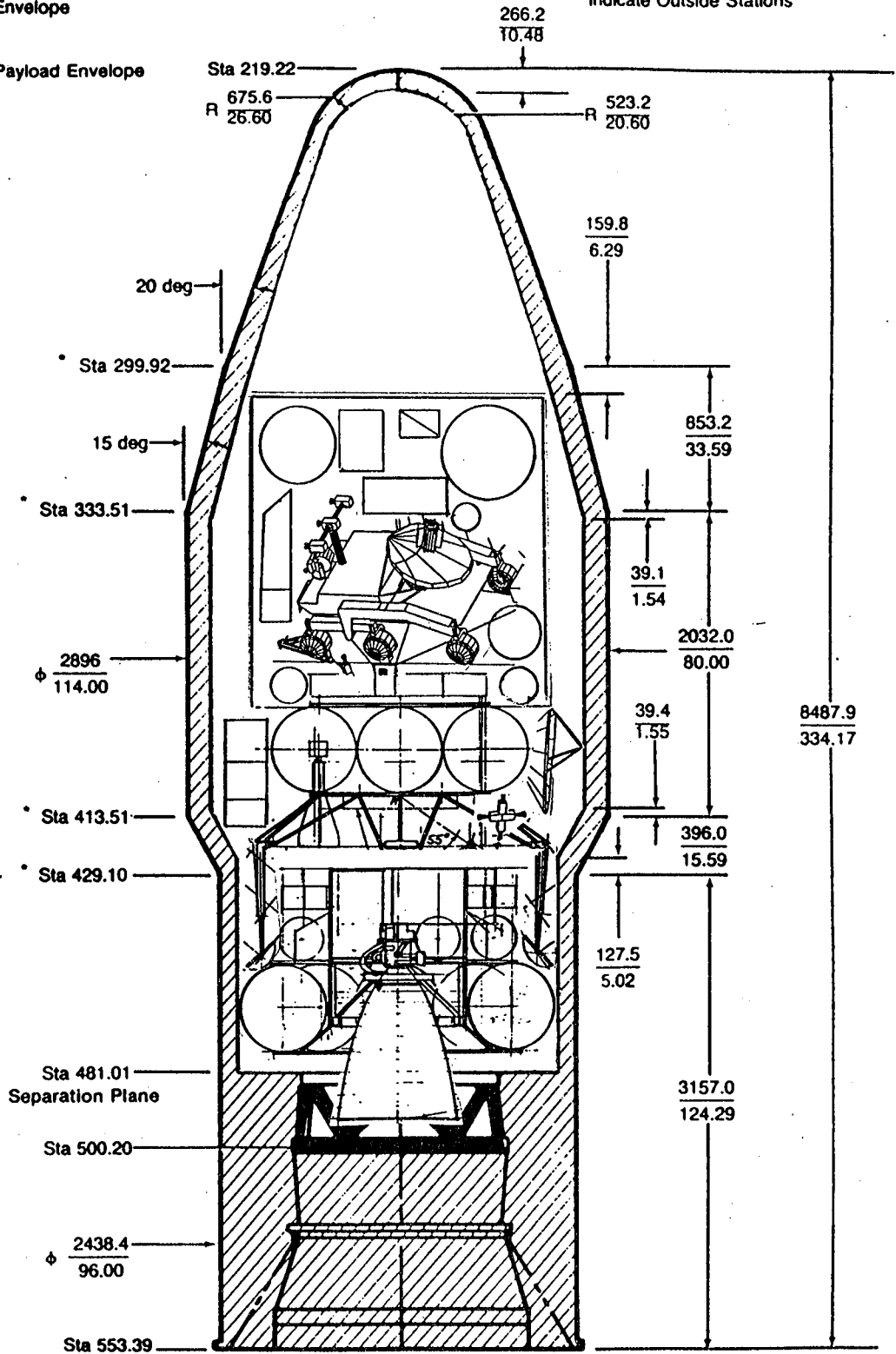




Note: 1. All Station Numbers Are in Inches  
2. Station Numbers With an Asterisk (\*) Indicate Outside Stations

-  Fairing Envelope
-  Usable Payload Envelope
-  PAF

mm.  
in. mm/in.



Jonette Stecklein/ET2/x36624

Systems Engineering Division